

Gas-insulated switchgear type 8DN8

Technical data

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Technical data of gas-insulated switchgear type 8DN8

Rated voltage	up to 145 kV	up to 170 kV
Rated frequency	50/60 Hz	50/60 Hz
Rated short-duration power-frequency withstand voltage (1 min)	up to 275 kV	up to 325 kV
Rated lightning impulse withstand voltage (1.2 / 50 µs)	up to 650 kV	up to 750 kV
Rated switching impulse withstand voltage (250 / 2500 µs)		
Rated normal current busbar Rated normal current feeder	up to 3150 A up to 3150 A	up to 4000 A up to 4000 A
Rated short-circuit breaking current	up to 40 kA	up to 63 kA
Rated peak withstand current	up to 108 kA	up to 170 kA
Rated short-time withstand current (up to 3 s)	up to 40 kA	up to 63 kA
Rated break time	< 3 cycles	< 3 cycles
Leakage rate per year and gas compartment (type-tested)	< 0.1 %	< 0.1 %
Drive mechanism of circuit-breaker	stored energy spring	stored energy spring
Rated operating sequence	O-0.3 s-CO-3 min-CO CO-15 s-CO	O-0.3 s-CO-3 min-CO CO-15 s-CO
Bay width	800 mm	1000 mm
Bay height, depth (depending on bay arrangement)	2600 mm x 4100 mm	3200 mm x 5500 mm
Bay weight	3 t	4.7 t
Ambient temperature range	-30 °C up to +55 °C	-30 °C up to +55 °C
Installation	indoor / outdoor	indoor / outdoor
Rated supply voltage	48 – 250 V DC	48 – 250 V DC
First major inspection	> 25 years	> 25 years
Expected lifetime	> 50 years	> 50 years
Standards	IEC / IEEE / GOST	IEC / IEEE / GOST

Other values on request

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